

RECEIVED

DEC 23 2002

TECH CENTER 1600/2900



P#24 1600

## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/632,036E

TIME: 13:57:43

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF4\12192002\I632036E.raw

3 <110> APPLICANT: Kaumaya, Pravin T.  
 4 Stevens, Vernon C.  
 5 Triozzi, Pierre L.  
 7 <120> TITLE OF INVENTION: Polypeptides and Polynucleotides for Enhancing Immune  
 Reactivity to HER-2  
 8 Proteins  
 10 <130> FILE REFERENCE: 18525/04011  
 12 <140> CURRENT APPLICATION NUMBER: 09/632,036E  
 C--> 13 <141> CURRENT FILING DATE: 2000-08-30  
 15 <150> PRIOR APPLICATION NUMBER: 60/146,869  
 16 <151> PRIOR FILING DATE: 1999-08-03  
 18 <160> NUMBER OF SEQ ID NOS: 42  
 20 <170> SOFTWARE: PatentIn version 3.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 19  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Homo sapiens  
 27 <400> SEQUENCE: 1  
 29 Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His  
 30 1 5 10 15  
 33 Leu Asp Met  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 22  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Homo sapiens  
 42 <400> SEQUENCE: 2  
 44 Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro Val Thr  
 45 1 5 10 15  
 48 Gly Ala Ser Pro Gly Gly  
 49 20  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 22  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: Homo sapiens  
 57 <400> SEQUENCE: 3  
 59 Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu Thr Leu  
 60 1 5 10 15  
 63 Ile Asp Thr Asn Arg Ser  
 64 20  
 67 <210> SEQ ID NO: 4  
 68 <211> LENGTH: 35  
 69 <212> TYPE: PRT  
 70 <213> ORGANISM: Homo sapiens  
 72 <400> SEQUENCE: 4

ENTERED

## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/632,036E

TIME: 13:57:43

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF4\12192002\I632036E.raw

```

74 Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro
75 1          5          10          15
78 Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln
79          20          25          30
82 Ser Leu Thr
83          35
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 21
88 <212> TYPE: PRT
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 5
93 Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro
94 1          5          10          15
97 Glu Gly Arg Tyr Thr
98          20
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 24
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 6
108 Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Ala
109 1          5          10          15
112 Glu Lys Cys Ser Lys Pro Cys Ala
113          20
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 18
118 <212> TYPE: PRT
119 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 7
123 Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu Gln
124 1          5          10          15
127 Pro Glu
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 20
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
136 <400> SEQUENCE: 8
138 Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp Leu Ser Val Phe
139 1          5          10          15
142 Gln Asn Leu Gln
143          20
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 19
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 9
153 Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro
154 1          5          10          15
157 Glu Asp Glu

```

## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/632,036E

TIME: 13:57:43

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF4\12192002\I632036E.raw

```

161 <210> SEQ ID NO: 10
162 <211> LENGTH: 34
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 10
168 Cys Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr
169 1 5 10 15
172 Cys Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys
173 20 25 30
176 Asp Pro
180 <210> SEQ ID NO: 11
181 <211> LENGTH: 18
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 11
187 Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu
188 1 5 10 15
191 Gly Ala
195 <210> SEQ ID NO: 12
196 <211> LENGTH: 22
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 12
202 Ile Asn Gly Thr His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro
203 1 5 10 15
206 Ala Glu Gln Arg Ala Ser
207 20
210 <210> SEQ ID NO: 13
211 <211> LENGTH: 19
212 <212> TYPE: PRT
213 <213> ORGANISM: Clostridium tetani
215 <400> SEQUENCE: 13
217 Asn Ser Val Asp Asp Ala Leu Ile Asn Ser Thr Ile Tyr Ser Tyr Phe
218 1 5 10 15
221 Pro Ser Val
225 <210> SEQ ID NO: 14
226 <211> LENGTH: 17
227 <212> TYPE: PRT
228 <213> ORGANISM: Clostridium tetani
230 <400> SEQUENCE: 14
232 Pro Gly Ile Asn Gly Lys Ala Ile His Leu Val Asn Asn Gln Ser Ser
233 1 5 10 15
236 Glu
240 <210> SEQ ID NO: 15
241 <211> LENGTH: 15
242 <212> TYPE: PRT
243 <213> ORGANISM: Clostridium tetani
245 <400> SEQUENCE: 15
247 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu

```

## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/632,036E

TIME: 13:57:43

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF4\12192002\I632036E.raw

```

248 1          5          10          15
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 21
253 <212> TYPE: PRT
254 <213> ORGANISM: Clostridium tetani
256 <400> SEQUENCE: 16
258 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
259 1          5          10          15
262 Ala Ser His Leu Glu
263          20
266 <210> SEQ ID NO: 17
267 <211> LENGTH: 15
268 <212> TYPE: PRT
269 <213> ORGANISM: Measles virus
271 <400> SEQUENCE: 17
273 Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val
274 1          5          10          15
277 <210> SEQ ID NO: 18
278 <211> LENGTH: 15
279 <212> TYPE: PRT
280 <213> ORGANISM: Hepatitis B virus
282 <400> SEQUENCE: 18
284 Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asn
285 1          5          10          15
288 <210> SEQ ID NO: 19
289 <211> LENGTH: 20
290 <212> TYPE: PRT
291 <213> ORGANISM: Plasmodium falciparum
293 <400> SEQUENCE: 19
295 Thr Cys Gly Val Gly Val Arg Val Arg Ser Arg Val Asn Ala Ala Asn
296 1          5          10          15
299 Lys Lys Pro Glu
300          20
303 <210> SEQ ID NO: 20
304 <211> LENGTH: 4
305 <212> TYPE: PRT
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: synthetic sequence
311 <400> SEQUENCE: 20
313 Gly Pro Ser Leu
314 1
317 <210> SEQ ID NO: 21
318 <211> LENGTH: 9
319 <212> TYPE: PRT
320 <213> ORGANISM: Homo sapiens
322 <400> SEQUENCE: 21
324 Ile Leu Trp Lys Asp Ile Phe His Lys
325 1          5

```

## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/632,036E

TIME: 13:57:43

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF4\12192002\I632036E.raw

```

328 <210> SEQ ID NO: 22
329 <211> LENGTH: 9
330 <212> TYPE: PRT
331 <213> ORGANISM: Homo sapiens
333 <400> SEQUENCE: 22
335 Ile Leu Lys Glu Thr Glu Leu Arg Lys
336 1 5
339 <210> SEQ ID NO: 23
340 <211> LENGTH: 9
341 <212> TYPE: PRT
342 <213> ORGANISM: Homo sapiens
344 <400> SEQUENCE: 23
346 Val Leu Arg Glu Asn Thr Ser Pro Lys
347 1 5
350 <210> SEQ ID NO: 24
351 <211> LENGTH: 9
352 <212> TYPE: PRT
353 <213> ORGANISM: Homo sapiens
355 <400> SEQUENCE: 24
357 Ala Ala Arg Pro Ala Gly Ala Thr Leu
358 1 5
361 <210> SEQ ID NO: 25
362 <211> LENGTH: 9
363 <212> TYPE: PRT
364 <213> ORGANISM: Homo sapiens
366 <400> SEQUENCE: 25
368 Leu Pro Ala Ser Pro Glu Thr His Leu
369 1 5
372 <210> SEQ ID NO: 26
373 <211> LENGTH: 10
374 <212> TYPE: PRT
375 <213> ORGANISM: Homo sapiens
377 <400> SEQUENCE: 26
379 Leu Pro Thr His Asp Pro Ser Leu Pro Leu
380 1 5 10
383 <210> SEQ ID NO: 27
384 <211> LENGTH: 9
385 <212> TYPE: PRT
386 <213> ORGANISM: Homo sapiens
388 <400> SEQUENCE: 27
390 Cys Arg Trp Gly Leu Leu Leu Ala Leu
391 1 5
394 <210> SEQ ID NO: 28
395 <211> LENGTH: 9
396 <212> TYPE: PRT
397 <213> ORGANISM: Homo sapiens
399 <400> SEQUENCE: 28
401 Arg Arg Phe Thr His Gln Ser Asp Val
402 1 5

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 12/19/2002  
PATENT APPLICATION:    US/09/632,036E      TIME: 13:57:44

Input Set : A:\pto.vsk.txt  
Output Set: N:\CRF4\12192002\I632036E.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7

**VERIFICATION SUMMARY**

DATE: 12/19/2002

PATENT APPLICATION: US/09/632,036E

TIME: 13:57:44

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF4\12192002\I632036E.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date